

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: June 25, 2003, 14:38:41 ; Search time 27.1047 Seconds

(without alignments)
843.812 Million cell updates/sec

Title: US-09-622-613B-26

Perfect score: 606

Sequence: 1 NSMATEFOCKHILNIPICN.....ICVKCENQPVHFAGICRCP 111

Scoring table: BUCSUM62

Gapop 10.0, Gapext 0.5

Searched: 671580 seqs, 206047115 residues

Total number of hits satisfying chosen parameters: 671580

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :
1: sp archaea: *
2: sp bacteria: *
3: sp fungi: *
4: sp human: *
5: sp_invertebrate: *
6: sp_mammal: *
7: sp_mhc: *
8: sp_organelle: *
9: sp_phage: *
10: sp_plant: *
11: sp_rodent: *
12: sp_virus: *
13: sp_vertebrate: *
14: sp_unclassified: *
15: sp_virus: *
16: sp_bacteriaph: *
17: sp_archaeap: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	586.5	96.8	133	09PWR7	09PWR7 rana catesb
2	585.5	91.7	133	09BSM0	09BSM0 rana catesb
3	482.5	79.6	133	09BSM2	09BSM2 rana catesb
4	473.5	78.1	133	09BSL9	09BSL9 rana catesb
5	466.5	77.0	133	09BSL8	09BSL8 rana catesb
6	443.5	73.2	133	09BSM1	09BSM1 rana catesb
7	371	61.2	132	09DP78	09DP78 rana catesb
8	276.5	45.6	127	0918V8	0918V8 rana pipien
9	272.5	45.0	127	0918V5	0918V5 rana pipien
10	241	39.8	129	09DFY6	09DFY6 rana catesb
11	224.5	37.0	128	09DFY8	09DFY8 rana catesb
12	221.5	36.5	128	09DFY7	09DFY7 rana catesb
13	212.5	35.1	128	09DFY5	09DFY5 rana catesb
14	158	26.1	169	09W738	09W738 xenopus lae
15	131	21.6	170	09BEC1	09BEC1 tragulus ja
16	126	20.8	150	08VD94	08VD94 berylmys bo

17	125.5	20.7	163	6	09BDC2	09BDC2 antilocapra
18	124.5	20.5	116	6	09TVC0	09TVC0 sus scrofa
19	124	20.5	150	11	08VDB8	08VDB8 rattus norv
20	122.5	20.2	144	6	09BH14	09BH14 antilocapra
21	120	19.8	150	11	08VDB2	08VDB2 rattus exul
22	116.5	19.2	152	11	08VDB9	08VDB9 rattus norv
23	115.5	19.1	119	6	09TV33	09TV33 bos taurus
24	114.5	18.9	124	6	095NE6	095NE6 bubalus bub
25	112.5	18.6	149	11	08VDP5	08VDP5 berylmys bo
26	112	18.5	134	6	09BDB9	09BDB9 tragulus ja
27	111.5	18.4	152	11	08VDB4	08VDB4 rattus tiom
28	111.5	18.4	156	6	08S005	08S005 lagotrichix 1
29	110.5	18.2	119	6	09TV30	09TV30 saquinus oe
30	110.5	18.2	119	6	09TV28	09TV28 cullemur ful
31	110.5	18.2	124	6	09TSF2	09TSF2 bos taurus
32	109.5	18.1	142	6	09BEC3	09BEC3 tragulus ja
33	109.5	18.1	156	6	08S006	08S006 ateles geof
34	109	18.0	124	6	09BEC2	09BEC2 tragulus ja
35	108.5	17.9	156	6	08S008	08S008 saimiri sci
36	108.5	17.9	156	6	08S007	08S007 saquinus oe
37	107.5	17.7	152	11	08VDP0	08VDP0 rattus fusc
38	106.5	17.6	116	6	097933	097933 phocoenode
39	106.5	17.6	149	11	08VDP3	08VDP3 rattus exul
40	105.5	17.4	116	6	097934	097934 pseudorca c
41	105.5	17.4	119	6	09TS06	09TS06 cercopthec
42	105.5	17.4	157	11	09JK14	09JK14 meriones un
43	105	17.3	158	6	08SPY2	08SPY2 callithrix
44	104.5	17.2	119	6	09TV32	09TV32 gorilla gor
45	104.5	17.2	124	6	09XS40	09XS40 camelus bac

ALIGNMENTS

RESULT 1
ID 09PWR7 PRELIMINARY: PRT: 133 AA.

AC 09PWR7: 01-MAY-2000 (TREMBLrel. 13, Created)
DT 01-MAY-2000 (TREMBLrel. 13, Last sequence update)
DT 01-DEC-2001 (TREMBLrel. 19, Last annotation update)
DE Ribonuclease precursor.
GN RCR.
OS Rana catesbeiana (Bull frog).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Neobatrachia; Ranidae; Rana.
OX NCBI_TaxID=8400;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=LIVER.
RX MEDLINE=98165825; PubMed=9497370;
RA Huang H.C., Wang S.C., Liew Y.J., Lu S.C., Liao Y.D.;
RT "The Rana catesbeiana rcr gene encoding a cytotoxic ribonuclease.
RT Tissue distribution, cloning, purification, cytotoxicity, and active
RT residues for RNase activity."
RL J Biol Chem. 273:6395-6401(1998).
DR EMBL: AF039104; AAD10702.1; -
DR HSSP: P11916; 1BC4.
DR InterPro: IPR001427; RNaseA.
DR Pfam: PF00074; rnaaseA.1.
DR ProDom: PD000535; RNaseA.1.
DR SMART: SM00092; RNase.PC.1.
DR PROSITE: PS00127; RNASE_PANCREATIC; UNKNOWN_1.
KW Signal.
FT SIGNAL 1 22 POTENTIAL.
FT CHAIN 23 133 RIBONUCLEASE.
SO SEQUENCE 133 AA; 14762 MW; A7D62594F7D16F0C CRC64;
Query Match 96.88; Score 586.5; DB 13; Length 133;
Best Local Similarity 99.18; Pred. No. 3.4e-60;
Matches 109; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
OY 3 NMATFOCKHILNIPICNCTIMDNINIVYGQCKRVNFTISSATVKAICTGVANNVL 61

Db 24 NMATFOCKHIINTPIT-CNTIMDNNIYVGGCKRVNTFISSATTVKAICTGVINNMVL 83
 QY 62 STTRFQOLNCTRTSITPRPCPYSSRTETNYICVCENQYVPHFAGIGRCP 111
 Db 84 STTRFQOLNCTRTSITPRPCPYSSRTETNYICVCENQYVPHFAGIGRCP 133

RESULT 2

Q98SMO PRELIMINARY: PRT: 133 AA.
 ID Q98SMO
 AC 01-JUN-2001 (TREMBlrel. 17, Created)
 DT 01-JUN-2001 (TREMBlrel. 17, Last sequence update)
 DT 01-DEC-2001 (TREMBlrel. 19, Last annotation update)
 DE RNase A-type ribonuclease rc208 precursor.
 OS Rana catesbeiana (Bull frog).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Amphibia; Batrachia; Anura; Neobatrachia; Ranoidae; Rana.
 NCBI_TaxID=8400;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=21539506; PubMed=11683320;
 RA Rosenberg H.F., Zhang J., Liao Y.-D., Dyer K.D.;
 RT "Rapid diversification of RNase A superfamily ribonuclease from the
 bullfrog, Rana catesbeiana.";
 RL J. Mol. Evol. 53:31-38(2001).
 DR EMBL: AF351209; AAK30255.1; -
 DR HSSP: P11916; IBC4
 DR InterPro: IPR001427; RNaseA.
 DR Pfam: PF00074; rnaaseA; 1.
 DR ProDom: PD000535; RNaseA; 1.
 DR SMART: SM00092; RNase_Pc; 1.
 DR PROSITE: PS00127; RNASE_PANCREATIC; UNKNOWN_1.
 KW Signal.
 FT SIGNAL
 SQ SEQUENCE 133 AA: 14628 MW: 87FCF12C3499E02 CRC64;

Query Match .91.7%; Score 555.5; DB 13; Length 133;
 Best Local Similarity 94.5%; Pred. No. 1.3e-56;
 Matches 104; Conservative 0; Mismatches 5; Indels 1; Gaps 1;

QY 3 NMATFOCKHIINTPIT-CNTIMDNNIYVGGCKRVNTFISSATTVKAICTGVINNMVL 61
 Db 24 NMATFOCKHIINTPIT-CNTIMDNNIYVGGCKRVNTFISSATTVKAICTGVINNMVL 83
 QY 62 STTRFQOLNCTRTSITPRPCPYSSRTETNYICVCENQYVPHFAGIGRCP 111
 Db 84 STTRFQOLNCTRTSITPRPCPYSSRTETNYICVCENQYVPHFAGIGRCP 133

RESULT 3

Q98SM2 PRELIMINARY: PRT: 132 AA.
 ID Q98SM2
 AC 01-JUN-2001 (TREMBlrel. 17, Created)
 DT 01-JUN-2001 (TREMBlrel. 17, Last sequence update)
 DT 01-JUN-2002 (TREMBlrel. 21, Last annotation update)
 DE RNase A-type ribonuclease rc203 precursor (RC-RNase7 precursor).
 OS Rana catesbeiana (Bull frog).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Amphibia; Batrachia; Anura; Neobatrachia; Ranoidae; Rana.
 NCBI_TaxID=8400;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=21539506; PubMed=11683320;
 RA Rosenberg H.F., Zhang J., Liao Y.-D., Dyer K.D.;
 RT "Rapid diversification of RNase A superfamily ribonuclease from the
 bullfrog, Rana catesbeiana.";
 RL J. Mol. Evol. 53:31-38(2001).
 DR EMBL: AF351210; AAK30256.1; -
 DR HSSP: P11916; IBC4
 DR InterPro: IPR001427; RNaseA.
 DR Pfam: PF00074; rnaaseA; 1.
 DR ProDom: PD000535; RNaseA; 1.
 DR SMART: SM00092; RNase_Pc; 1.
 DR PROSITE: PS00127; RNASE_PANCREATIC; UNKNOWN_1.
 KW Signal.
 FT SIGNAL
 SQ SEQUENCE 133 AA: 14615 MW: C8785B236B26E54E CRC64;

QY 3 NMATFOCKHIINTPIT-CNTIMDNNIYVGGCKRVNTFISSATTVKAICTGVINNMVL 61
 Db 24 NMATFOCKHIINTPIT-CNTIMDNNIYVGGCKRVNTFISSATTVKAICTGVINNMVL 83
 QY 62 STTRFQOLNCTRTSITPRPCPYSSRTETNYICVCENQYVPHFAGIGRCP 111
 Db 84 STTRFQOLNCTRTSITPRPCPYSSRTETNYICVCENQYVPHFAGIGRCP 133
 RESULT 4
 Q98SL9 PRELIMINARY: PRT: 133 AA.
 ID Q98SL9
 AC 01-JUN-2001 (TREMBlrel. 17, Created)
 DT 01-JUN-2001 (TREMBlrel. 17, Last sequence update)
 DT 01-DEC-2001 (TREMBlrel. 19, Last annotation update)
 DE RNase A-type ribonuclease rc212 precursor.
 OS Rana catesbeiana (Bull frog).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Amphibia; Batrachia; Anura; Neobatrachia; Ranoidae; Rana.
 NCBI_TaxID=8400;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=21539506; PubMed=11683320;
 RA Rosenberg H.F., Zhang J., Liao Y.-D., Dyer K.D.;
 RT "Rapid diversification of RNase A superfamily ribonuclease from the
 bullfrog, Rana catesbeiana.";
 RL J. Mol. Evol. 53:31-38(2001).
 DR EMBL: AF351210; AAK30256.1; -
 DR HSSP: P11916; IBC4
 DR InterPro: IPR001427; RNaseA.
 DR Pfam: PF00074; rnaaseA; 1.
 DR ProDom: PD000535; RNaseA; 1.
 DR SMART: SM00092; RNase_Pc; 1.
 DR PROSITE: PS00127; RNASE_PANCREATIC; UNKNOWN_1.
 KW Signal.
 FT SIGNAL
 SQ SEQUENCE 133 AA: 14615 MW: C8785B236B26E54E CRC64;

RA Liao Y.-D., Tang P.-C., Jeng J.-T.;
 RL Submitted (MAR-2001) to the EMBL/GenBank/DBJ databases.
 DR EMBL: AF351207; AAK30253.1; -
 DR EMBL: AF359578; AAL87036.1; -
 DR HSSP: P11916; IBC4
 DR InterPro: IPR001427; RNaseA.
 DR Pfam: PF00074; rnaaseA; 1.
 DR ProDom: PD000535; RNaseA; 1.
 DR SMART: SM00092; RNase_Pc; 1.
 DR PROSITE: PS00127; RNASE_PANCREATIC; UNKNOWN_1.
 KW Signal.
 FT SIGNAL
 SQ SEQUENCE 132 AA: 14412 MW: 131A745187978687 CRC64;

Query Match 79.6%; Score 482.5; DB 13; Length 132;
 Best Local Similarity 84.3%; Pred. No. 3.7e-48;
 Matches 91; Conservative 5; Mismatches 11; Indels 1; Gaps 1;

QY 4 WATFOCKHIINTPIT-CNTIMDNNIYVGGCKRVNTFISSATTVKAICTGVINNMVL 62
 Db 25 WATFOCKHIINTPIT-CNTIMDNNIYVGGCKRVNTFISSATTVKAICTGVINNMVL 84
 QY 63 STTRFQOLNCTRTSITPRPCPYSSRTETNYICVCENQYVPHFAGIGRCP 110
 Db 85 STTRFQOLNCTRTSITPRPCPYSSRTETNYICVCENQYVPHFAGIGRCP 132

RESULT 4

Q98SL9 PRELIMINARY: PRT: 133 AA.
 ID Q98SL9
 AC 01-JUN-2001 (TREMBlrel. 17, Created)
 DT 01-JUN-2001 (TREMBlrel. 17, Last sequence update)
 DT 01-DEC-2001 (TREMBlrel. 19, Last annotation update)
 DE RNase A-type ribonuclease rc212 precursor.
 OS Rana catesbeiana (Bull frog).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Amphibia; Batrachia; Anura; Neobatrachia; Ranoidae; Rana.
 NCBI_TaxID=8400;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=21539506; PubMed=11683320;
 RA Rosenberg H.F., Zhang J., Liao Y.-D., Dyer K.D.;
 RT "Rapid diversification of RNase A superfamily ribonuclease from the
 bullfrog, Rana catesbeiana.";
 RL J. Mol. Evol. 53:31-38(2001).
 DR EMBL: AF351210; AAK30256.1; -
 DR HSSP: P11916; IBC4
 DR InterPro: IPR001427; RNaseA.
 DR Pfam: PF00074; rnaaseA; 1.
 DR ProDom: PD000535; RNaseA; 1.
 DR SMART: SM00092; RNase_Pc; 1.
 DR PROSITE: PS00127; RNASE_PANCREATIC; UNKNOWN_1.
 KW Signal.
 FT SIGNAL
 SQ SEQUENCE 133 AA: 14615 MW: C8785B236B26E54E CRC64;

Query Match 78.1%; Score 473.5; DB 13; Length 133;
 Best Local Similarity 78.2%; Pred. No. 4.1e-47;
 Matches 86; Conservative 11; Mismatches 12; Indels 1; Gaps 1;

QY 3 NMATFOCKHIINTPIT-CNTIMDNNIYVGGCKRVNTFISSATTVKAICTGVINNMVL 61
 Db 24 NMATFOCKHIINTPIT-CNTIMDNNIYVGGCKRVNTFISSATTVKAICTGVINNMVL 83
 QY 62 STTRFQOLNCTRTSITPRPCPYSSRTETNYICVCENQYVPHFAGIGRCP 111
 Db 84 STTRFQOLNCTRTSITPRPCPYSSRTETNYICVCENQYVPHFAGIGRCP 133

RESULT 5

Q98SL8

ID Q98SL8 PRELIMINARY: PRT: 133 AA.
 AC Q98SL8:
 DT 01-JUN-2001 (TrEMBLrel. 17, Created)
 DT 01-JUN-2001 (TrEMBLrel. 17, Last sequence update)
 DE 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
 DE RNase A-type ribonuclease rc218 precursor.
 OS Rana catesbeiana (Bull frog).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Amphibia; Batrachia; Anura; Neobatrachia; Ranioidea; Ranidae; Rana.
 OX NCBI_TaxID=8400;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=21539506; PubMed=11683320;
 RA Rosenberg H.F., Zhang J., Liao Y.-D., Dyer K.D.;
 RT "Rapid diversification of RNase A superfamily ribonuclease from the
 bullfrog, Rana catesbeiana.";
 RL J. Mol. Evol. 53:31-38(2001).
 DR EMBL: AF351211; AAK30257.1;
 DR HSSP: P11916; 1BC4.
 DR InterPro: IPR001427; RNaseA.
 DR Pfam: PF00074; rnaaseA.1.
 DR ProDom: PD000535; RNaseA.1.
 DR SMART: SM00092; RNase_Pc.1.
 DR PROSITE: PS00127; RNASE_PANCREATIC; UNKNOWN_1.
 KW SIGNAL.
 FT SIGNAL.
 SQ SEQUENCE 133 AA: 14590 MW: 8840B9A94FA5B943 CRC64:
 1 22 POTENTIAL.
 Query Match 77.0%; Score 466.5; DB 13; Length 133;
 Best Local Similarity 76.4%; Pred. No. 2.6e-46;
 Matches 84; Conservative 13; Mismatches 12; Indels 1; Gaps 1;
 OY 3 NMAFQOKHIITPPII-CNTIMDNNTIYVGGCKRVNFTIISATTYKACIGVINMVL 61
 DB 24 NMAFQOKHIITPPII-CNTIMDNNTIYVGGCKRVNFTIISATTYKACIGVINMVL 83
 62 STTRQLNLTCTRTSITPRCPYSSRTETNYICVKCENQYPVHFGIGRC 111
 84 SSTKQLDLCIFRIFITPRCPYSSRTETNYICVKCENQYPVHFGIGRC 133
 Db
 RESULT 6
 ID Q98SM1 PRELIMINARY: PRT: 132 AA.
 AC Q98SM1:
 DT 01-JUN-2001 (TrEMBLrel. 17, Created)
 DT 01-JUN-2001 (TrEMBLrel. 17, Last sequence update)
 DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
 DE RNase A-type ribonuclease rc204 precursor.
 OS Rana catesbeiana (Bull frog).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Amphibia; Batrachia; Anura; Neobatrachia; Ranioidea; Ranidae; Rana.
 OX NCBI_TaxID=8400;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=21539506; PubMed=11683320;
 RA Rosenberg H.F., Zhang J., Liao Y.-D., Dyer K.D.;
 RT "Rapid diversification of RNase A superfamily ribonuclease from the
 bullfrog, Rana catesbeiana.";
 RL J. Mol. Evol. 53:31-38(2001).
 DR EMBL: AF351208; AAK30254.1;
 DR HSSP: P11916; 1BC4.
 DR InterPro: IPR001427; RNaseA.
 DR Pfam: PF00074; rnaaseA.1.
 DR ProDom: PD000535; RNaseA.1.
 DR SMART: SM00092; RNase_Pc.1.
 DR PROSITE: PS00127; RNASE_PANCREATIC; UNKNOWN_1.
 KW SIGNAL.
 FT SIGNAL.
 SQ SEQUENCE 132 AA: 14704 MW: 95D61760F729868E CRC64:
 1 22 POTENTIAL.
 Query Match 73.2%; Score 443.5; DB 13; Length 132;
 Best Local Similarity 78.0%; Pred. No. 1.2e-43;
 Db

Matches 85; Conservative 7; Mismatches 16; Indels 1; Gaps 1;
 OY 3 NMAFQOKHIITPPII-CNTIMDNNTIYVGGCKRVNFTIISATTYKACIGVINMVL 61
 DB 24 DMPYFOQKHIPSTSSIDCWTIMDKAIYVGGCKKEKNTFIISEDVKAICGVSVDRE 83
 62 STTRQLNLTCTRTSITPRCPYSSRTETNYICVKCENQYPVHFGIGRC 110
 84 STTRQLNLTCTRTSITPRCPYSSRTETNYICVKCENQYPVHFGIGRC 132
 Db
 RESULT 7
 ID Q9DF78 PRELIMINARY: PRT: 132 AA.
 AC Q9DF78:
 DT 01-MAR-2001 (TrEMBLrel. 16, Created)
 DT 01-OCT-2001 (TrEMBLrel. 18, Last sequence update)
 DE 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
 DE RC-RNaseL1 ribonuclease precursor.
 OS Rana catesbeiana (Bull frog).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Amphibia; Batrachia; Anura; Neobatrachia; Ranioidea; Ranidae; Rana.
 OX NCBI_TaxID=8400;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=20512555; PubMed=11058105;
 RA Liao Y.-D., Huang H.-C., Leu Y.-J., Wei C.-W., Tang P.-C., Wang S.-C.;
 RT "Purification and cloning of cytotoxic ribonucleases from Rana
 catesbeiana (bullfrog)."
 RL Nucleic Acids Res. 28:4097-4104(2000).
 DR EMBL: AF288642; AAC30414.2;
 DR HSSP: P11916; 1BC4.
 DR InterPro: IPR001427; RNaseA.
 DR Pfam: PF00074; rnaaseA.1.
 DR ProDom: PD000535; RNaseA.1.
 DR SMART: SM00092; RNase_Pc.1.
 DR PROSITE: PS00127; RNASE_PANCREATIC; UNKNOWN_1.
 KW SIGNAL.
 FT SIGNAL.
 SQ SEQUENCE 132 AA: 14625 MW: D8D9A517452FBE53 CRC64:
 1 21 POTENTIAL.
 Query Match 61.2%; Score 371; DB 13; Length 132;
 Best Local Similarity 65.5%; Pred. No. 3e-35;
 Matches 72; Conservative 9; Mismatches 27; Indels 2; Gaps 2;
 OY 3 NMAFQOKHIITPPII-CNTIMDNNTIYVGGCKRVNFTIISATTYKACIGVINMVL 60
 DB 23 NMAFQOKHIITPPII-CNTIMDNNTIYVGGCKKEKNTFIISEDVKAICGVSVDRE 82
 61 LSTTRQLNLTCTRTSITPRCPYSSRTETNYICVKCENQYPVHFGIGRC 110
 83 LSTTRQLNLTCTRTSITPRCPYSSRTETNYICVKCENQYPVHFGIGRC 132
 Db
 RESULT 8
 ID Q918V8 PRELIMINARY: PRT: 127 AA.
 AC Q918V8:
 DT 01-OCT-2000 (TrEMBLrel. 15, Created)
 DT 01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
 DE 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
 DE Onconase variant rapL1 precursor.
 OS Rana pipiens (Northern leopard frog).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Amphibia; Batrachia; Anura; Neobatrachia; Ranioidea; Ranidae; Rana.
 OX NCBI_TaxID=8400;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=20512555; PubMed=11058105;
 RA Liao Y.-D., Huang H.-C., Leu Y.-J., Wei C.-W., Tang P.-C., Wang S.-C.;
 RT "Purification and cloning of cytotoxic ribonucleases from Rana
 catesbeiana (bullfrog)."
 RL Nucleic Acids Res. 28:4097-4104(2000).
 DR EMBL: AF288642; AAC30414.2;
 DR HSSP: P11916; 1BC4.
 DR InterPro: IPR001427; RNaseA.
 DR Pfam: PF00074; rnaaseA.1.
 DR ProDom: PD000535; RNaseA.1.
 DR SMART: SM00092; RNase_Pc.1.
 DR PROSITE: PS00127; RNASE_PANCREATIC; UNKNOWN_1.
 KW SIGNAL.
 FT SIGNAL.
 SQ SEQUENCE 127 AA: 14625 MW: D8D9A517452FBE53 CRC64:
 1 21 POTENTIAL.
 Query Match 61.2%; Score 371; DB 13; Length 132;
 Best Local Similarity 65.5%; Pred. No. 3e-35;
 Matches 72; Conservative 9; Mismatches 27; Indels 2; Gaps 2;
 OY 3 NMAFQOKHIITPPII-CNTIMDNNTIYVGGCKRVNFTIISATTYKACIGVINMVL 60
 DB 23 NMAFQOKHIITPPII-CNTIMDNNTIYVGGCKKEKNTFIISEDVKAICGVSVDRE 82
 61 LSTTRQLNLTCTRTSITPRCPYSSRTETNYICVKCENQYPVHFGIGRC 110
 83 LSTTRQLNLTCTRTSITPRCPYSSRTETNYICVKCENQYPVHFGIGRC 132
 Db

RA Liao Y.-D., Huang H.-C., Liew Y.-J., Wei C.-W., Tang P.-C., Wang S.-C.;
 RL Submitted (Aug-2001) to the EMBL/GenBank/DBJ databases.
 DR EMBL: AF242553; AAC31439.1; -
 DR HSSP: P22069; IONC.
 DR InterPro: IPR001427; RNaseA.
 DR Pfam: PF00074; RNaseA; 1.
 DR ProDom: PD000535; RNaseA; 1.
 DR SMART: SM00092; RNaseA; 1.
 DR PROSITE: PS00127; RNase_PANCREATIC; UNKNOWN_1.
 KW Signal.
 FT SIGNAL 1 23 POTENTIAL.
 FT CHAIN 24 128 RC-RNASE2 RIBONUCLEASE.
 SQ SEQUENCE 128 AA: 14839 MW: 989719CF52053EEC CRC64;

Query Match 37.0%; Score 224.5; DB 13; Length 128;
 Best Local Similarity 39.6%; Pred. No. 2.6e-18;
 Matches 44; Conservative 20; Mismatches 38; Indels 9; Gaps 4;

QY 3 NMATFOCKHINT-PIICNTIMDNNTIYVGCKRVNFTFISSATYKAICTGV-IMNV 60
 25 NMETFOCKHINT-PIICNTIMDNNTIYVGCKRVNFTFISSATYKAICTGV-IMNV 60
 81 LSTDEFTVLDCKNRKRL---PCHYKLLKSSNTICITCENKLPVHFVAGGKCP 128

RESULT 12

Q9DFY7 PRELIMINARY; PRT; 128 AA.
 AC Q9DFY7;
 DT 01-MAR-2001 (TrEMBLrel. 16, Created)
 DT 01-OCT-2001 (TrEMBLrel. 18, Last sequence update)
 DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
 DE RC-RNase3 ribonuclease precursor.
 OS Rana catesbeiana (bull frog).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Amphibia; Batrachia; Anura; Neobatrachia; Ranioidea; Ranidae; Rana.
 OX NCBI_TaxID=8400;
 RN [1]
 RP SEQUENCE FROM N.A.

RC TISSUE=LIVER;
 RA MEDLINE=20512555; Pubmed=11058105;
 RA Liao Y.-D., Huang H.-C., Liew Y.-J., Wei C.-W., Tang P.-C., Wang S.-C.;
 RT "Purification and cloning of cytotoxic ribonucleases from Rana
 catesbeiana (bullfrog).";
 RL Nucleic Acids Res. 28:4097-4104(2000).
 DR EMBL: AF242554; AAC31440.2; -
 DR HSSP: P22069; IONC.
 DR InterPro: IPR001427; RNaseA.
 DR Pfam: PF00074; RNaseA; 1.
 DR ProDom: PD000535; RNaseA; 1.
 DR SMART: SM00092; RNaseA; 1.
 DR PROSITE: PS00127; RNase_PANCREATIC; UNKNOWN_1.
 KW Signal.
 FT SIGNAL 1 23 POTENTIAL.
 FT CHAIN 24 128 RC-RNASE3 RIBONUCLEASE.
 SQ SEQUENCE 128 AA: 14517 MW: 2B1498082E0587D CRC64;

Query Match 36.6%; Score 221.5; DB 13; Length 128;
 Best Local Similarity 40.5%; Pred. No. 5.8e-18;
 Matches 45; Conservative 18; Mismatches 39; Indels 9; Gaps 4;

QY 3 NMATFOCKHINT-PIICNTIMDNNTIYVGCKRVNFTFISSATYKAICTGV-IMNV 60
 DB 25 NMETFOCKHINT-PIICNTIMDNNTIYVGCKRVNFTFISSATYKAICTGV-IMNV 60
 61 LSTFPOCKHINT-PIICNTIMDNNTIYVGCKRVNFTFISSATYKAICTGV-IMNV 60
 81 LSRDFTVLDCKNRKRL---PCHYKLLKSSNTICITCENKLPVHFVAGGKCP 128

RESULT 13

Q9DFY5 PRELIMINARY; PRT; 128 AA.
 ID Q9DFY5;
 DT 01-MAR-2001 (TrEMBLrel. 16, Created)
 DT 01-OCT-2001 (TrEMBLrel. 18, Last sequence update)
 DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
 DE RC-RNase6 ribonuclease precursor.
 OS Rana catesbeiana (bull frog).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Amphibia; Batrachia; Anura; Neobatrachia; Ranioidea; Ranidae; Rana.
 OX NCBI_TaxID=8400;
 RN [1]
 RP SEQUENCE FROM N.A.

RC TISSUE=LIVER;
 RA MEDLINE=20512555; Pubmed=11058105;
 RA Liao Y.-D., Huang H.-C., Liew Y.-J., Wei C.-W., Tang P.-C., Wang S.-C.;
 RT "Purification and cloning of cytotoxic ribonucleases from Rana
 catesbeiana (bullfrog).";
 RL Nucleic Acids Res. 28:4097-4104(2000).
 DR HSSP: P22069; IONC.
 DR InterPro: IPR001427; RNaseA.
 DR Pfam: PF00074; RNaseA; 1.
 DR ProDom: PD000535; RNaseA; 1.
 DR SMART: SM00092; RNaseA; 1.
 DR PROSITE: PS00127; RNase_PANCREATIC; UNKNOWN_1.
 KW Signal.
 FT SIGNAL 1 23 POTENTIAL.
 FT CHAIN 24 128 RC-RNASE6 RIBONUCLEASE.
 SQ SEQUENCE 128 AA: 14804 MW: AFE8FD67D26C7C2 CRC64;

Query Match 35.1%; Score 212.5; DB 13; Length 128;
 Best Local Similarity 38.7%; Pred. No. 6.4e-17;
 Matches 43; Conservative 19; Mismatches 40; Indels 9; Gaps 4;

QY 3 NMATFOCKHINT-PIICNTIMDNNTIYVGCKRVNFTFISSATYKAICTGV-IMNV 60
 DB 25 NMETFOCKHINT-PIICNTIMDNNTIYVGCKRVNFTFISSATYKAICTGV-IMNV 60
 61 LSTFPOCKHINT-PIICNTIMDNNTIYVGCKRVNFTFISSATYKAICTGV-IMNV 60
 81 LSRDFTVLDCKNRKRL---PCHYKLLKSSNTICITCENKLPVHFVAGGKCP 128

RESULT 14

Q9W738 PRELIMINARY; PRT; 169 AA.
 ID Q9W738;
 DT 01-NOV-1999 (TrEMBLrel. 12, Created)
 DT 01-NOV-1999 (TrEMBLrel. 12, Last sequence update)
 DT 01-JUN-2001 (TrEMBLrel. 17, Last annotation update)
 DE FR12 protein.
 OS Xenopus laevis (African clawed frog).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Amphibia; Batrachia; Anura; Mesobatrachia; Pipidoidea; Pipidae;
 OC Xenopodidae; Xenopus.
 OX NCBI_TaxID=8355;
 RN [1]
 RP SEQUENCE FROM N.A.

RA MEDLINE=96069863; Pubmed=7585965;
 RA Kinoshita N., Minshull J., Kirschner M.W.;
 RT "The identification of two novel ligands of the FGF receptor by a
 yeast screening method and their activity in Xenopus development.";
 RL Cell 83:621-630(1995).
 RN [2]
 RP SEQUENCE FROM N.A.

RA Kinoshita N., Kirschner M.W.;

